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PLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/603,876	06/25/2003	Paul Goode	13569.0012US01	3012
45458 75	90 03/22/2006		EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH/			FAULCON JR, LENWOOD	
GUIDANT/CPI			ART UNIT	PAPER NUMBER
PO BOX 2938			ARTUNII	PAPER NUMBER
MINNEAPOLIS, MN 55402			3762	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	$-\theta$			
•		10/603,876	GOODE, PAUL				
Office Action S	ummary	Examiner	Art Unit				
		Lenwood Faulcon, Jr.	3762				
	this communication app	pears on the cover sheet w	ith the correspondence ac	ddress			
Period for Reply A SHORTENED STATUTOR WHICHEVER IS LONGER, F Extensions of time may be available u after SIX (6) MONTHS from the mailin - If NO period for reply is specified abov - Failure to reply within the set or extend Any reply received by the Office later i earned patent term adjustment. See 3	FROM THE MAILING D nder the provisions of 37 CFR 1.1 g date of this communication. e, the maximum statutory period ded period for reply will, by statute than three months after the mailing	ATE OF THIS COMMUNI 36(a). In no event, however, may a will apply and will expire SIX (6) MON a, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this of BANDONED (35 U.S.C. § 133).				
Status							
1) Responsive to commu	nication(s) filed on 20 D	ecember 2005					
2a) ☐ This action is FINAL.	• •	s action is non-final.					
3) Since this application i	s in condition for allowa		•	e merits is			
Disposition of Claims							
4) ⊠ Claim(s) <u>1,3,5,7-15,17</u> 4a) Of the above claim(s) is/are a 6) ⊠ Claim(s) <u>1,3,5,7-15,17</u> 7) □ Claim(s) is/are a 8) □ Claim(s) are sul	(s) is/are withdra allowed. -27,29-44 and 46-49 is/a objected to.	wn from consideration. are rejected.	tion.				
Application Papers							
9) ☐ The specification is obj	ected to by the Examine	er.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not reques	t that any objection to the	drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
Replacement drawing sh 11)☐ The oath or declaration	* *	tion is required if the drawing caminer. Note the attache	•	, ,			
Priority under 35 U.S.C. § 119							
12) Acknowledgment is ma a) All b) Some * c) 1. Certified copies 2. Certified copies 3. Copies of the ce application from	☐ None of: of the priority document of the priority document rtified copies of the prio the International Burea	s have been received. s have been received in A rity documents have been	pplication No received in this National	l Stage			
Attachment(s) 1) Notice of References Cited (PTO-			Summary (PTO-413)				
Notice of Draftsperson's Patent Draftsp			s)/Mail Date nformal Patent Application (PT 	O-152)			

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DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed December 20, 2005 have been fully considered but they are not persuasive.
- 2. Applicant's arguments with respect to claims 1, 3, 5, 7-15, 17-27, 29-44, 46-49 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

3. Claims 1, 3, 8-14, 17, 19, 29, 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Levine et al. (U.S. Patent No. 6,058,328) as applied in the previous Office Action of September 22, 2005 and below, and further in view of Chirife (U.S. Patent No. 5,154,171).

Levine et al. does not specifically teach of the use of ejection fraction as a cardiac parameter. Chirife teaches of a rate adapter pacemaker designed to accommodate changes in a patient's metabolic demand by utilizing ejection fraction as the rate controlling parameter (col. 3 lines 48-57).

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the teachings of Levine et al. with the teachings of Chirife.

Levine et al. and Chirife both teach of cardiac stimulating devices that sense cardiac parameters to cardiac conditions, and thus teach of analogous arts. It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the system as taught by Levine et al. to include the ejection fraction as a detected cardiac

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parameter, as taught by Chirife, since this would enhance the system's ability and accuracy of detecting sudden cardiac death conditions.

4. Claims 5, 7, 24-27, 30-42, 44 and 46-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Levine et al. (U.S. Patent No. 6,058,328), as applied in the previous Office Action of September 22, 2005.

Examiner takes the position that Levine et al. inherently teaches of the ability for detecting the difference between resting and non-resting parameters to predict the onset of a sudden cardiac death episode (col. 29 lines 41-48 and claim 46).

Levine et al. also teaches of detecting the occurrence of a myocardial infarction and other cardiac conditions that affect a heart's blood flow (col. 33 lines 13-21). In regards to claims 30, 32, 46 and 48, Examiner takes the position that although Levine et al. does not specifically teach of monitoring for a drug regimen or congestive heart failure, it would have been obvious to one having ordinary skill in the art at the time of the invention to modify the system as taught by Levine et al. to include the detection of various cardiac conditions, since this would enhance the system's ability and accuracy in predicting and treating sudden cardiac death, as suggested by Levine et al. in the teaching of monitoring for various cardiac conditions that inherently may effect blood flow (col. 33 lines 13-21).

5. Claims 15, 18 rejected under 35 U.S.C. 103(a) as being unpatentable over Levine et al. (U.S. Patent No. 6,058,328) in view of Chirife (U.S. Patent No. 5,154,171) as applied to claim 1-3, 8-14, 17, 19, 29, 43 above, and further in view of Causey et al. (U.S. Patent No. 4,809,697).

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Levine et al. teaches of an implantable stimulator communicating with external device (col. 11 lines 1-15). Levine et al. further teaches that the external device could be of the type commonly known in the art such as the device as taught by Causey et al. (col. 11 lines 3-5). Causey et al. teaches of external device for communicating with an implantable stimulator, in which the external device comprising an external memory (Figure 1).

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the teachings of Levine et al. and Chirife for the reasons stated above, and it would have been obvious to further combine these teachings with the teachings of Causey et al. for the reasons stated by Levine et al. (col. lines 3-5). Levine et al., Chirife and Causey et al. all teach of stimulation systems with sensing capabilities and thus teach of analogous arts.

6. Claims 20-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Levine et al. (U.S. Patent No. 6,058,328) in view of Chirife (U.S. Patent No. 5,154,171) as applied to claim 1-3, 8-14, 17, 19, 29, 43 above, and further in view of Koestner et al. (U.S. Patent No. 5,300,093) as applied in the previous Office Action of September 22, 2005.

It would have been obvious to one having ordinary skill in the art at the time of the invention to combine the teachings of Levine et al. and Chirife for the reasons stated above, and to further combine these teachings with the teachings of Koestner et al. Levine et al., Chirife and Koestner et al. all teach of cardiac stimulation devices that measure cardiac impedance and thus teach of analogous arts. It would have been

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obvious to one having ordinary skill in the art at the time of the invention to modify the system as taught by Levine et al. to have electrodes in various configurations, such as those as taught by Koestner et al., since these configurations may enhance the efficiency and accuracy of sensing.

Conclusion

- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Langer et al. (U.S. Patent No. 4,202,340), Geddes et al. (U.S. Patent No. 5,058,583), Nappholz et al. (U.S. Patent No. 5,113,869), Sackner (U.S. Patent No. 5,178,151), Street et al. (U.S. Patent No. 6,589,188), Meyer (U.S. 2001/0003160), Geeske et al. (EP 0985429 A2), Schaldach ("Automatic Adjustment of Pacing Parameters Based on Intracardiac Impedance Measurements," Pacing and Clinical Electrophysiology, 1990, pgs 1702-1710.
- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lenwood Faulcon, Jr. whose telephone number is 571-272-6090. The examiner can normally be reached on Monday-Thursday from 9 to 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela D. Sykes, can be reached on 571-272-4955. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Lenwood Faulcon, Jr.

Angela Sykes

Supervisory Examiner

ANGELA D. SYKES
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTED 2702